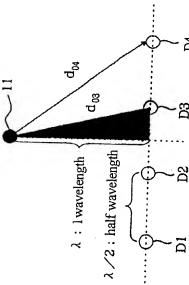


Fig. 1

CAL signal transmitting antenna



CAL signal tranmitting antenna . Physical - Receiving antenna #4 distance $d_{04}^2 = \lambda^2 + (\lambda/2 + \lambda/4)^2$ CAL signal tranmitting antenna . Physical - Receiving antenna #3 distance $d_{03}^2 = \lambda^2 + (\lambda/4)^2$ Phase variation arising over physical distance:

$$\frac{d_{0x}}{\lambda r r} \cdot 2 \pi [rad]$$

Gain variation arising over physical distance:

$$10\log 10 \left(\frac{4 \pi d_{0x}}{\lambda rx} \right) [dB]$$

where, λ: Wavelength of transmit/receive intermediate frequency

Receiving Receiving antenna antenna

Receiving antenna

Receiving antenna # 1

λ rx: Receive frequency wavelength

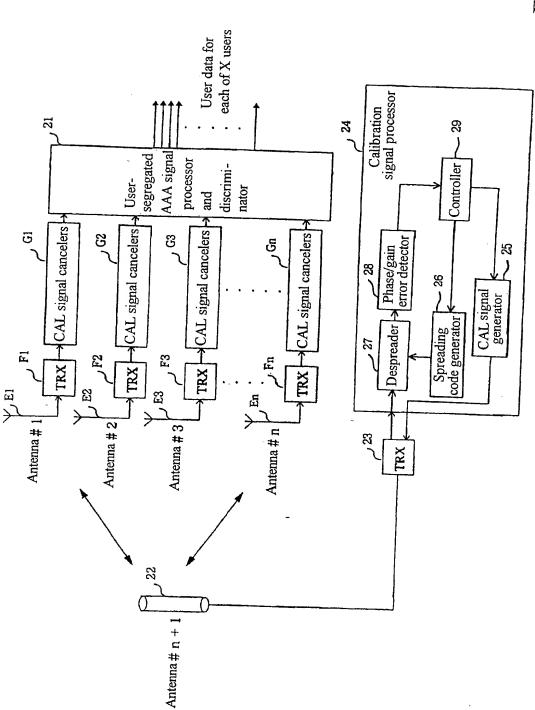


Fig. 3

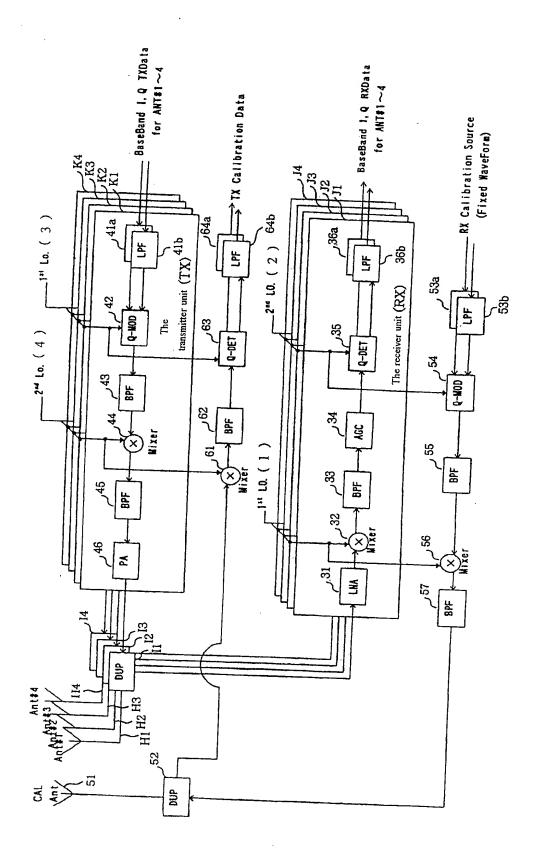


Fig. 4

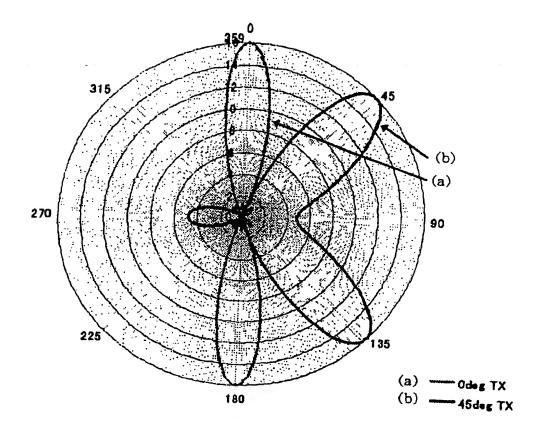


Fig. 5

4

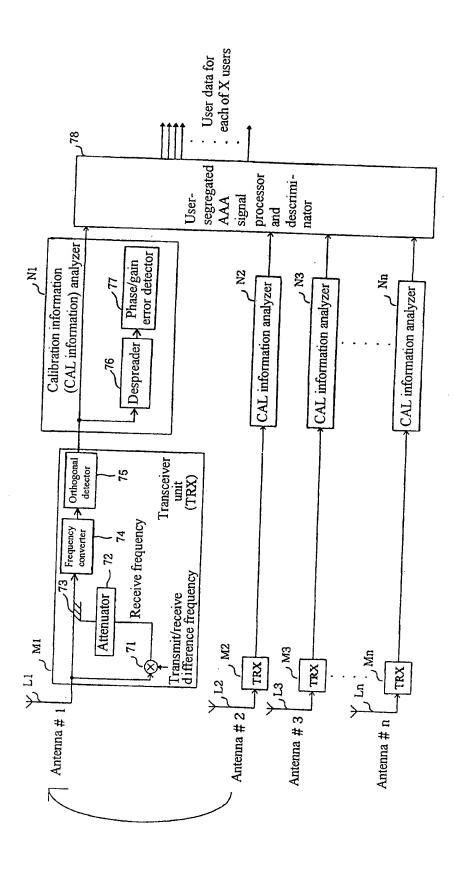


Fig. 6